INSTALLATION & OPERATION GUIDE

PHILIPS

Strand Lighting

Vision.net
Touchscreen Stations

Vision.net Touchscreens:
95242A, 95242B, 95242P-A, 95242P-B, 95242SE, 95242RM, 95240RM, and 95241

Vision.net EU Touchscreens:
96355, 96356, and 96357

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Vision.net Touchscreen Stations Installation & User's Manual

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IMPORTANT INFORMATION

Warnings and Notices

When using electrical equipment, basic safety precautions should always be followed including the following:

a. **READ AND FOLLOW ALL SAFETY INSTRUCTIONS**.

b. For indoor, dry locations use only. Do not use outdoors.

c. Do not mount near gas or electric heaters.

d. Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.

e. The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.

f. Not for residential use. Do not use this equipment for other than intended use.

g. Refer service to qualified personnel.

SAVE THESE INSTRUCTIONS.

WARNING: You must have access to a main circuit breaker or other power disconnect device before installing any wiring. Be sure that power is disconnected by removing fuses or turning the main circuit breaker off before installation. Installing the device with power on may expose you to dangerous voltages and damage the device. A qualified electrician must perform this installation.

WARNING: Refer to National Electrical Code® and local codes for cable specifications. Failure to use proper cable can result in damage to equipment or danger to personnel.

WARNING: This equipment is intended for installation in accordance with the National Electric Code® and local regulations. It is also intended for installation in indoor applications only. Before any electrical work is performed, disconnect power at the circuit breaker or remove the fuse to avoid shock or damage to the control. It is recommended that a qualified electrician perform this installation.

Philips Strand Lighting Limited Two-Year Warranty

Philips Strand Lighting offers a two-year limited warranty of its products against defects in materials or workmanship from the date of delivery. A copy of Philips Strand Lighting two-year limited warranty containing specific terms and conditions can be obtained from the Philips Strand Lighting web site at www.strandlighting.com or by contacting your local Philips Strand Lighting office.

TABLE OF CONTENTS

Strand Lighting Offices ..... Inside Front Cover
IMPORTANT INFORMATION
Warnings and Notices 1
Philips Strand Lighting Limited Two-Year Warranty 1
TABLE OF CONTENTS
PREFACE
About this Manual 3
Product Descriptions 3
Vision.net Touchscreens Overview 3
Wall Touchscreens 3
Rack Mounted Touchscreen 3
Portable Touchscreens 3
Vision.net EU (European) Touchscreens 4
VISION.NET TOUCHSCREEN OVERVIEW
Vision.net Touchscreen Components 5
Overview 5
Touchscreen Connections 5
INSTALLATION AND SET UP
Power Requirements 6
Mounting / Installation 6
Wiring and Connections 6
Connecting Power - Using an External Power Supply 6
Network Connections 9
OPERATION
Creating a Vision.net Touchscreen 10
Vision.net Designer software installation on a Strand Lighting Vision.net touchscreen: 12
Testing a Vision.Net Touchscreen 12
Configuring a Vision.net Touchscreen 12
Cleaning and Care Instructions 13
TECHNICAL SPECIFICATIONS
Vision.net Touchscreen Common Specifications 14

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PREFACE

1. About this Manual

The document provides installation and operation instructions for the following products:

- Vision.net Touchscreens: (catalog numbers: 95242A, 95242B, 95242P-A, 95242P-B, 95242SE, 95242RM, 95240RM, and 95241)
- Vision.net EU Touchscreens: (catalog numbers: 96355, 96356, and 96357)

Please read all instructions before installing or using this product. *Retain this manual for future reference.* Additional product information and descriptions may be downloaded at www.strandlighting.com.

2. Product Descriptions

Vision.net Touchscreens Overview

Touchscreens are top level control components that provide a highly customizable interface to the Vision.net network. These stations are very flexible and provide a highly intuitive and easy way of working with the Vision.net system.

There are several types of touchscreens and many applications for them.

Wall Touchscreens

This is a Vision.net touchscreen that is permanently mounted in a wall. The 7 inch model is available in either Almond or Black. All other sizes are Charcoal Grey.

Figure 1: Standard Vision.net 7 Inch Touchscreen in Black

Rack Mounted Touchscreen

This is a Vision.net touchscreen that is permanently mounted in an equipment rack. In addition to the 7 inch touchscreens, there is a 15 inch model available.

Portable Touchscreens

A portable touchscreens is a wired Vision.net touchscreen that is available for remote operation. It is mounted in an enclosure and tethered for connection into a Vision.net system. The tethered connection can be temporary or permanent.

Vision.net EU (European) Touchscreens

Vision.net EU touchscreens are available in a wired 7 inch touchscreen with an attached 8 button station that is permanently mounted in a wall or in an equipment rack. There is also a 15 inch model available.

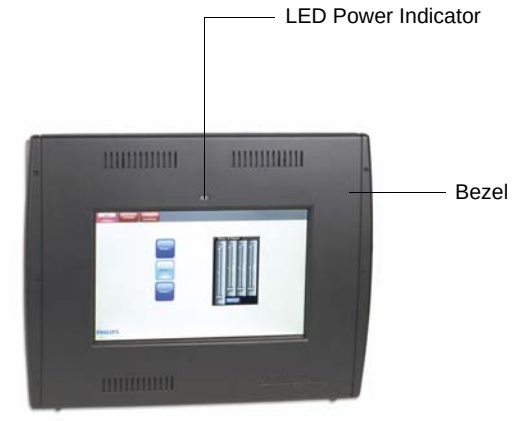
Figure 2: European 7 Inch Vision.net Touchscreen in Black with 8 Buttons

Note: Additional product information and descriptions may be downloaded at www.strandlighting.com.

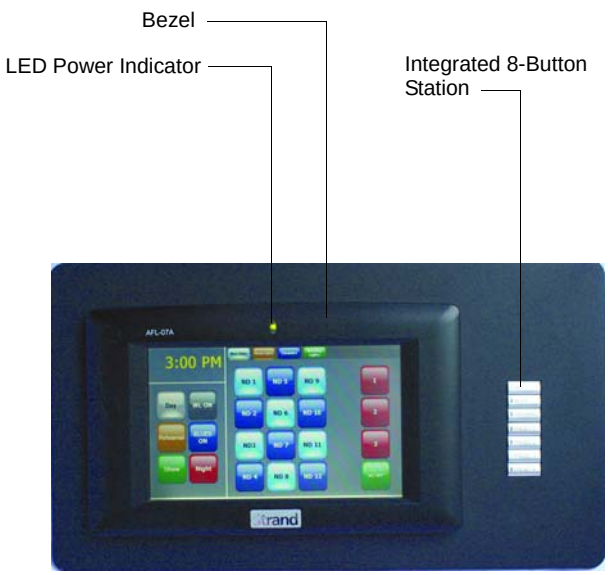
VISION.NET TOUCHSCREEN OVERVIEW

1. Vision.net Touchscreen Components

Overview

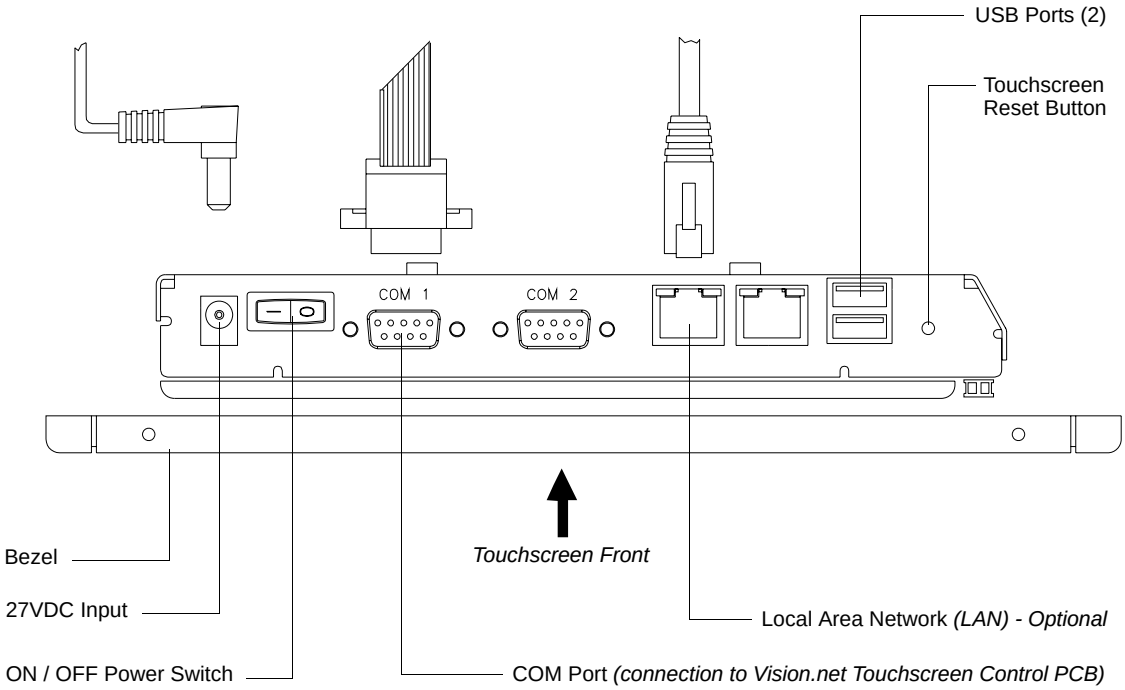


Standard 7 Inch Vision.net Touchscreen



European 7 Inch Vision.net Touchscreen with 8 Buttons

Touchscreen Connections



Note: Illustration for reference only. For complete connection requirements, see "Wiring and Connections" on page 6.

INSTALLATION AND SET UP

1. Power Requirements

The Vision.net Touchscreen operates on 27VDC. It is powered through the Touchscreen Control PCB (pre- installed on the back of the touchscreen) via an external AC to DC power supply.

2. Mounting / Installation

Note: The Vision.net Touchscreen Control PCB is a card that connects to the touchscreen to allow VN/485 and RS-232 communications. This card is mandatory for a Vision.net system that is communicating SVN/485 only. The Touchscreen Control PCB is pre-installed in on the back of the touchscreen.

To install wall-mounted touchsreens:

Step 1. If conduit is required by local code, provide conduit to the back box where the Touchscreen Control PCB is installed.

Step 2. Install the back box at the desired location.

Step 3. Refer to next section for touchscreen wiring and connections.

3. Wiring and Connections

Connecting Power - Using an External Power Supply

To connect an external power supply (not powering from Vision.net network):

WARNING! Make sure power is disconnected (removed) before connecting power to touchscreen.

Step 1. As shown in **Figure 3**, at Touchscreen Control PCB make sure jumper at JP1 is on Pins 1 and 2.

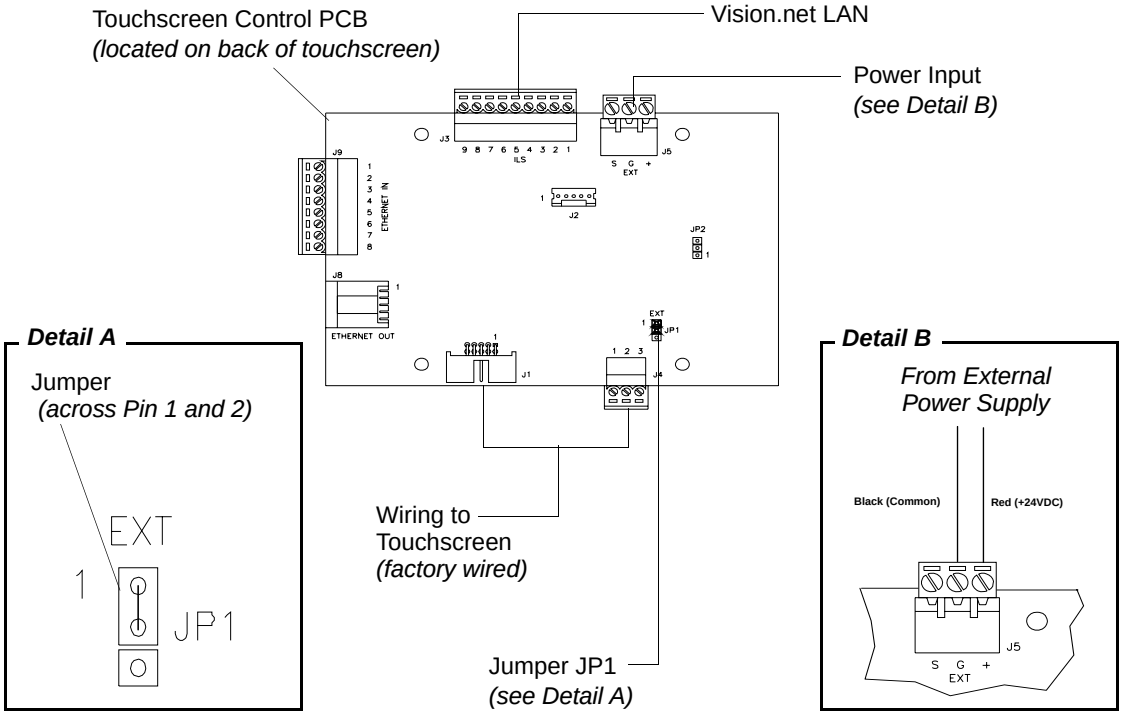


Figure 3: Touchscreen Control PCB Jumper Setting and Power Connections

Step 2. Using two (2), #14 AWG (.75 mm2) wires, connect external power supply as illustrated in **Figure 3**.

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Note: The external power supply must be mounted within 500 feet (150 meters) of the touchscreen. Two #14 AWG conductors must be used.

Step 3. Connect power cable from 27VDC input connector on touchscreen to 3 pin connector on Touchscreen Control PCB.

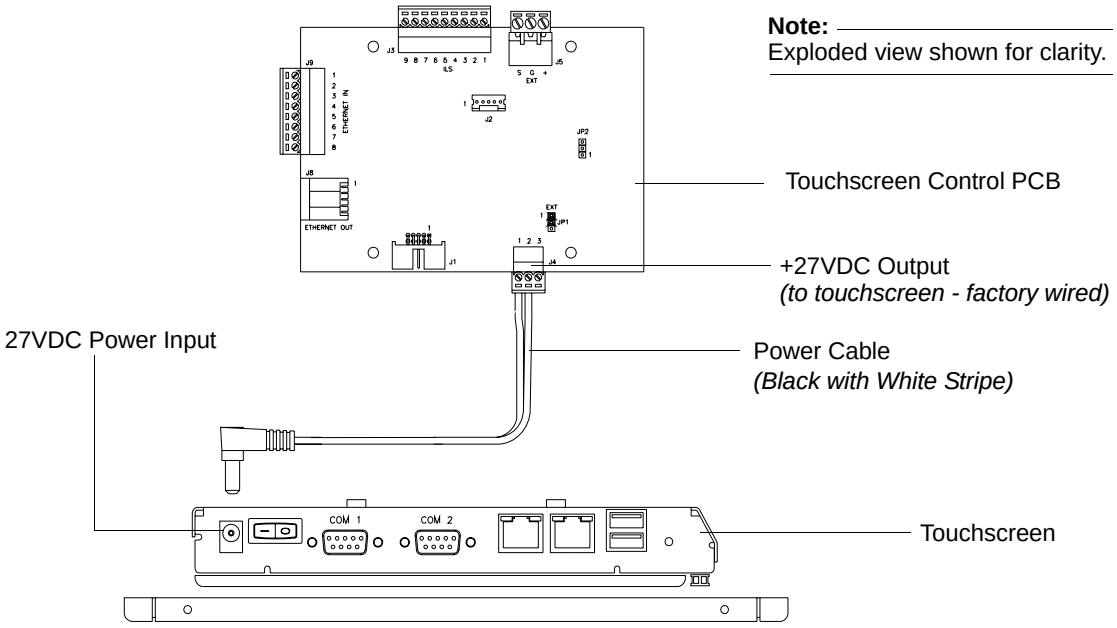

Figure 4: Touchscreen Power Connection

To connect power supply (powering from Vision.net network):

WARNING! Make sure power is disconnected (removed) before connecting to touchscreen.

Step 4. As shown in **Figure 5**, at Touchscreen Control PCB make sure jumper - at JP1- is on Pins 1 and 2.

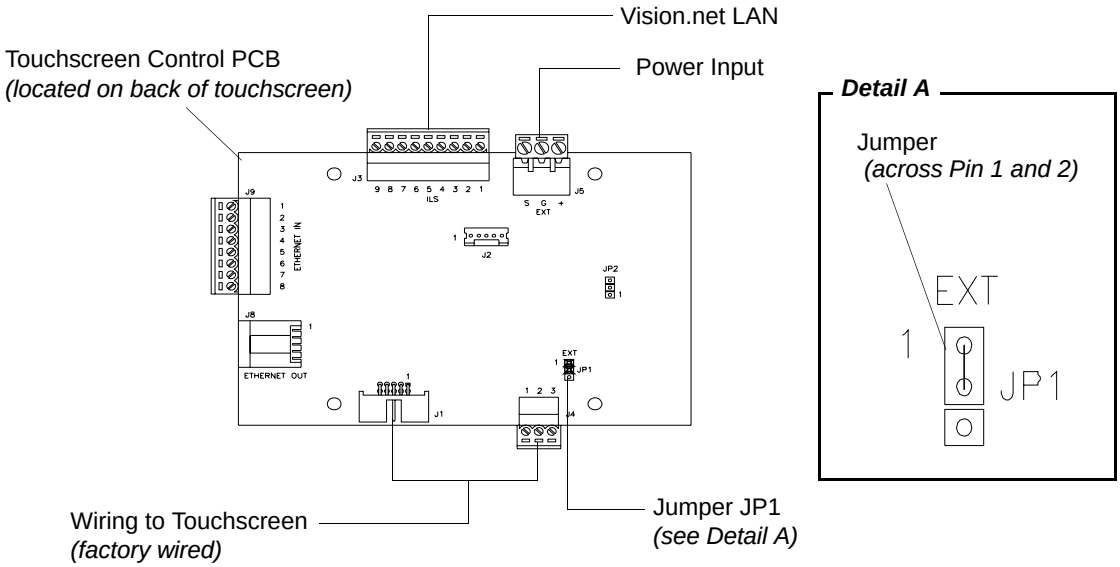

Figure 5: Touchscreen Control PCB Jumper Setting and Power Connections

Step 5. Connect SVN/485 network using Belden 1583A cable according to wiring diagram in **Figure 6**.

Note:
Exploded view shown for clarity.

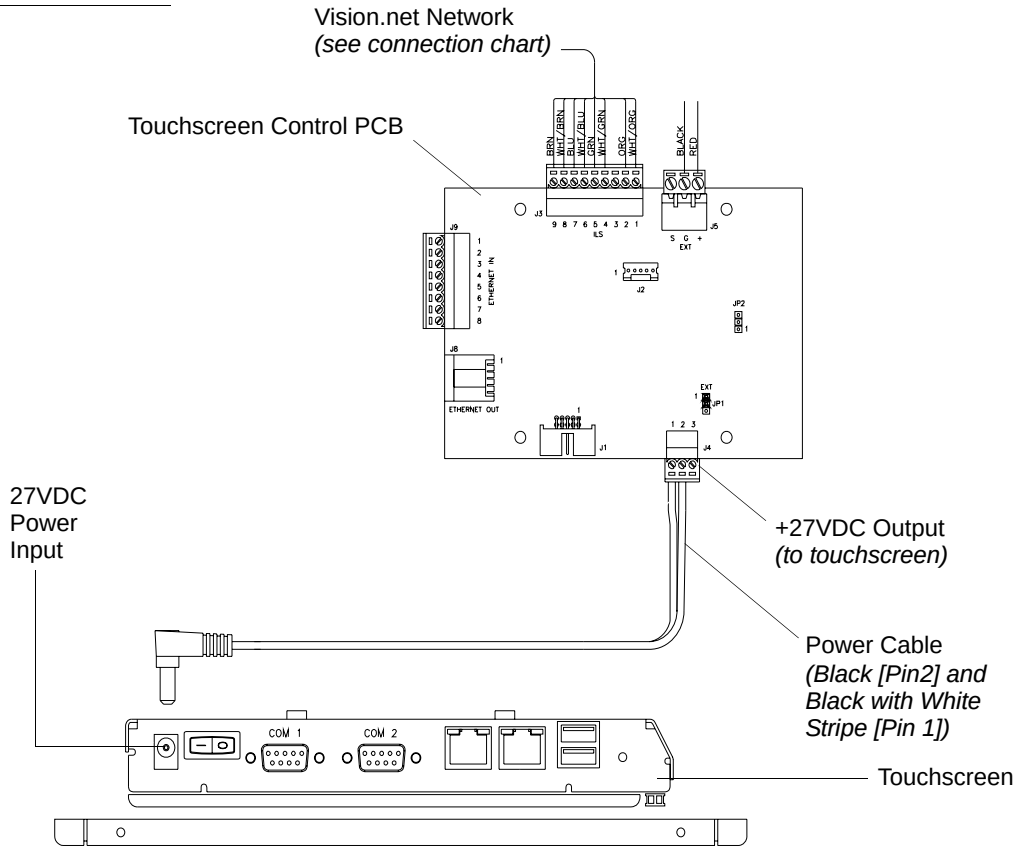

Table 1: Vision.net Wiring Connections*

Pin	Signal	Color
1	RX +	White / Orange
2	RX -	Orange
3	Not Used	Not Used
4	+ NET V	White / Green
5	- NET V	Green
6	+ NET V	White / Blue
7	- NET V	Blue
8	+ NET V	White / Brown
9	- NET V	Brown

* Required cable - Belden 1538A

Figure 6: Touchscreen Connections - Power and VIsion.net

Step 6. Connect power cable from Touchscreen Control PCB to Touchscreen.

Network Connections

Once the wiring is terminated to the Touchscreen Control PCB, proceed to connecting the touchscreen itself.

There are two connection options:

1) Connect the network cable from the RJ-45 port on the touchscreen to "Ethernet out" RJ-45 port on Touchscreen Control PCB as shown in **Figure 7**. Connect Ethernet using Belden 1583A cable from the SNV/IP network on the "Ethernet In" 8-pin connector.

OR

2) Connect a standard CAT5e cable from the SVN/IP network directly to the RJ-45 port on the touchscreen.

Note: The RJ-45 connections on the Control PCB are for convenience wiring only. It is only a pass through and does not convert SVN/IP to SVN/485 or SVN/485 to SVN/IP. If the ethernet jack is used, a static IP address in the same range must be configured for the jack to be active.

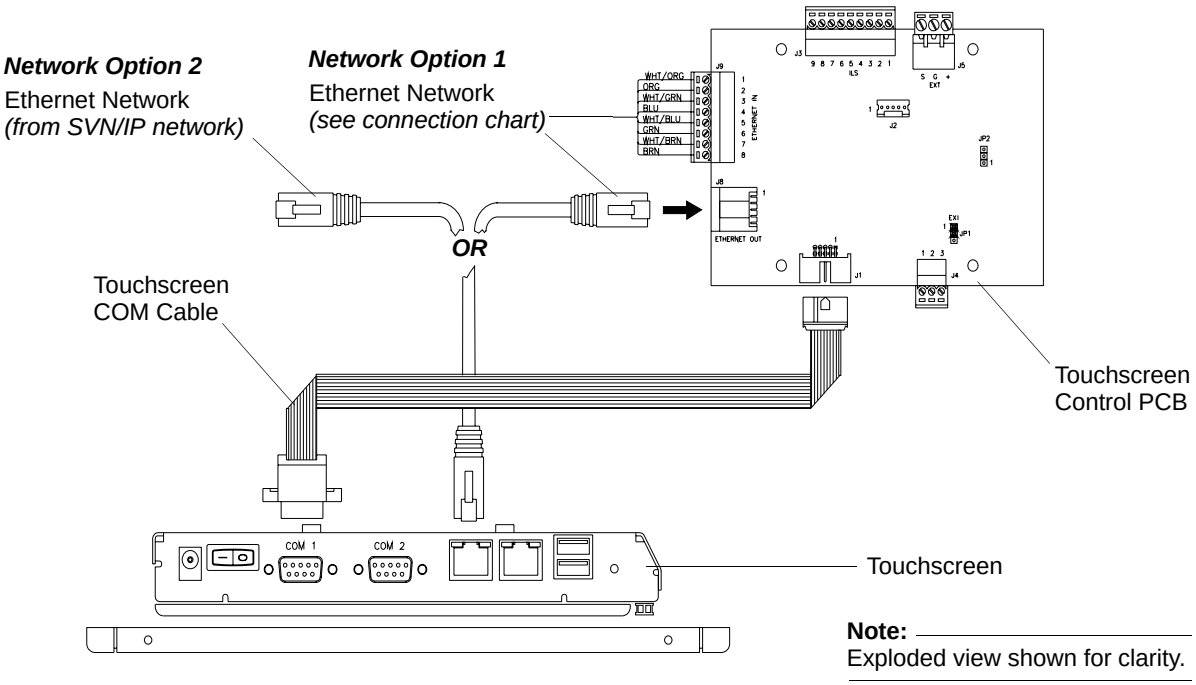

Table 2: Ethernet Wiring Connections*

Pin	Signal	Color
1	RX +	White / Orange
2	RX -	Orange
3	TX +	White / Green
4	Not Used	Not Used
5	Not Used	Not Used
6	TX -	Green
7	Not Used	Not Used
8	Not Used	Not Used

* Required cable - Belden 1538A

Figure 7: Touchscreen Network Connection

Note: Connect Touchscreen Control PCB to Touchscreen COM Cable if not already connected as shown in **Figure 7**.

OPERATION

1. Creating a Vision.net Touchscreen

Note: Follow these instructions **ONLY** if the touchscreen arrives without any setup information. Before beginning the process of adding Vision.Net functionality to a touchscreen, be sure to inspect the screen to ensure that it is free of all manufacturer defects.

To create a Vision.net Touchscreen:

Note: Before proceeding, contact Strand Lighting technical support via phone at 1.214.647.7880 or 1.800.4.STRAND or via e-mail at entertainment.service@philips.com for system files.

Step 1. Load system files obtained from Strand Lighting technical support onto a USB key.

Step 2. Power touchscreen.

Step 3. When booting is complete, insert programming USB key into screen.

Step 4. Open MYDEVICE/HARDDISK2.

Step 5. Copy STARTUP FOR SHASTA.

Step 6. Navigate to MYDEVICE/HARDDISK.

Step 7. Paste STARTUP FOR SHASTA into touchscreen.

Step 8. Close all windows.

Step 9. Open the START menu.

Step 10. Select SETTINGS/CONTROL PANEL.

Step 11. Double tap on AUTOLAUNCH. This will open a configuration window.

a. Select BROWSE.

b. Navigate to MYDEVICE/HARDDISK.

c. Double tap on STARTUP FOR SHASTA.

Note: Old-style touchscreens used a file called START FOR TOUCHSCREEN. Delete this file and replace it with STARTUP FOR SHASTA if using new Shasta firmware.

d. Verify that STARTUP FOR SHASTA now appears in the window.

e. Tap Save.

f. Tap OK. Note, if X is pressed all changes will be lost.

Step 12. From the open CONTROL PANEL window select SYSTEM. This will open the device configuration window. CONTROL PANEL > SYSTEM > DEVICE NAME.

a. Select DEVICE NAME.

b. Set DEVICE NAME from Table 3, "Touchscreen Device Names," on page 11.

Note: You must add the last 3 digits of the IP address if touchscreens are networked.

Touchscreen Type	Device Name
Portable	TS-P-xxx
7 *(non-Aaeon)* & 10 Inch	TS-I-xxx
3.5 Inch	TS-D-xxx
15 Inch *(iEi only)*	TS-C-xxx
15 Inch *(Aaeon only)*	TS-B*-xxx
7 Inch *(Aaeon only)*	TS-A*-xxx

Table 3: Touchscreen Device Names

Note: "-xxx" is the last three digits of the unit's IP address. * = Old hardware. Old Hardware designations are included for service and support issues. These must not be used in new installations.

c. Tap X to close window.

Step 13. Close all open windows.

Step 14. Open the START menu.

Step 15. Select SETTINGS/NETWORK AND DIALUP CONNECTIONS. This will open the Network settings window.

a. Tap and hold on any wireless connection for 3 seconds.

b. From menu select DISABLE.

c. Tap X to close window.

Step 16. Open the START menu.

Step 17. Select SETTINGS/TASKBAR AND START MENU. This will open the Taskbar settings window.

a. Check the box to AUTOHIDE.

b. Uncheck the box for ALWAYS ON TOP.

c. Tap X to close window.

Step 18. Close all windows.

Step 19. Open MYDEVICE/HARDDISK.

Step 20. Double tap on STARTUP FOR SHASTA. This will launch the Shasta environment.

Note: The USB key must be in place.

Step 21. Select UPDATE FIRMWARE AND LAUNCH APPLICATION. At this point, the touchscreen will copy all necessary files from the USB key.

WARNING! Do not remove the USB key until the transfer is complete.

The Touchscreen is now ready for use.

Note: Depending on what ActiveScreen.ntc2 file was present in the UPDATE folder on the USB key the screen may display incorrectly. Please be sure that the file on the USB key is for the desired screen.

2. Vision.net Designer software installation on a Strand Lighting Vision.net touchscreen:

Note: For this procedure, you will need the latest Vision.net Designer software. The latest version of this software can be downloaded from the Strand website at www.strandlighting.com. Also, you will need to have an empty USB key in order to move the required files from a Windows-based computer to the Strand Lighting Vision.net touchscreen.

To install Vision.net Designer software:

Step 1. UNZIP (un-compress) downloaded Vision.net Designer software to find a zipped file titled Shasta CE for Update.zip file.

Step 2. On an empty USB Key:

a. Create a folder titled Update.

b. Move all files from Shasta CE for Update.zip file on computer to Update folder on USB key.

c. Unplug USB key from computer.

Step 3. Turn Off or remove power from touchscreen.

Step 4. Turn On or power up touchscreen.

Step 5. Touchscreen will begin boot process.

Step 6. After a portion of boot process has occurred (see note), plug USB key (with updated software) into touchscreen's USB port.

Note: When Windows CE splash screen appears, connect USB key with the touchscreen software unzipped in the Update folder.

Step 7. The touchscreen will boot and provide a Touch Screen Startup Control interface.

Step 8. Select the following option labeled Update Firmware and Start Application.

Step 9. Confirm selection and action.

Step 10. When upgrade process is complete, remove USB key.

Step 11. Repeat process, as desired, on additional touchscreens.

3. Testing a Vision.Net Touchscreen

Ensure that the touchscreen has been properly setup and configured before attempting the test procedure. If not, then go to "Creating a Vision.net Touchscreen" on page 10.

To test a Vision.net Touchscreen:

Step 1. Attach computer running Vision.net Designer to Vision.net LAN using Vision.net RS-232 port (Part number 63025).

Step 2. Attach touchscreen control PCB to Vision.net LAN (If touchscreen is not powered, power it now).

Step 3. Verify that pressing buttons or moving sliders on the touchscreen causes Designer for Vision.net 3 to show these commands on the status line.

4. Configuring a Vision.net Touchscreen

A Vision.net Touchscreen can be configured using Vision.net Designer. Go to www.strandlighting.com to download the current version of Vision.net Designer.

5. Cleaning and Care Instructions

WARNING! All cleaning should be performed with power completely removed from the console. Never attempt to open unit. There are no user-serviceable parts. Under no circumstances should ammonia-based cleaners, acetone, or other harsh solvents be used on or near the Vision.net Touchscreen Stations or power supply. These types of cleaners or solvents can permanently damage the unit.

Being a solid-state device, the Vision.net Touchscreen Stations requires very little routine maintenance by the user.

Should the unit become dirty, disconnect from power supply, and clean unit using a lint-free cleaning cloth.

If you have any questions regarding the use or care of your Vision.net Touchscreen Stations, please contact Philips Strand Lighting technical support or your local Authorized Dealer.

TECHNICAL SPECIFICATIONS

1. Vision.net Touchscreen Common Specifications

Supply Voltage:	27VDC (either via external power supply or via the Vision.net network)
Power Consumption:	7 Inch Models: 20 Watts (approx.)
Ambient Temperature:	0 to 50 degrees C (32 to 95 degrees F)
Humidity:	0%-90% Non condensing
Compliance:	Safety / EMI: UL, FCC, CB, CCC, CE (per OEM)

Note: For specific and complete model specifications, features, etc., refer to the product specification sheet or visit the Philips Strand Lighting web site at www.strandlighting.com for more details.

Standard 7 Inch Vision.net Touchscreen

European 7 Inch Vision.net Touchscreen with 8 Buttons

NOTES

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